

Quality Assurance Project Plan

RI Water Column Monitoring/High Volume Chemical Data Collection
Lower Passaic River Restoration Project
New Jersey

Section: Worksheet #20
Revision: 0
Date: June 2012
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QAPP Worksheet #20 (UFP-QAPP Manual Section 3.1.1) Field Quality Control Sample Summary Table

Matrix	Analytical Group	Conc. Level	Analytical and Preparation SOP Reference ^a	No. of Sampling Locations (No. of Samples)	No. of Field Duplicates ^b	No. of Rinsate Blanks ^c	No. of PE Samples ^d	Total No. of Samples to Lab
Solid (Separated Solids)	PCBs (Homologs and Congeners)	Low	AP-3	6 (6)	1	1	1	9
Solid (Sorption Media [PUF])	PCBs (Homologs and Congeners)	Low	AP-3	6 (6)	1	1	0	8
Solid (Separated Solids)	PCDD/Fs	Low	AP-1	6 (6)	1	1	1	9
Solid (Sorption Media [PUF])	PCDD/Fs	Low	AP-1	6 (6)	1	1	0	8
Water	POC	Low	C-16	6 (6)	1	1	0	8
Water	DOC	Low	C-13, C-16	6 (6)	1	1	0	8
Water	SSC	Low	C-17	6 (6)	1	1	0	8

^a Refer to Worksheet #23 for SOP title

^b Field duplicates will be collected at a frequency of 1 per 20 samples unless noted otherwise. Separated solids and sorption media (PUF) field duplicate samples will be collected (as co-located samples) using a second PR2900 high volume sampler at a sample location simultaneously. For the SSC and POC/DOC samples, a second set of subsamples (field duplicates) will be collected from the 20 L carboy, with the parent and field duplicate samples being collected in an alternating fashion (i.e., SSC sample collected, SSC field duplicate collected; POC/DOC sample collected, POC/DOC field duplicate collected). The parent samples and the field duplicates will be submitted to the laboratory, analyzed, and reported as separate samples.

^c Equipment rinsate blanks will be collected at a frequency of one per sampling team for each set of decontaminated equipment utilized (e.g., PR2900, 20 L carboy, tubing, etc.). One equipment rinsate blank per task was assumed, based on a one week field program.

^d Since it is anticipated that HV CWCM program will occur within six months of the Low Resolution Coring Supplemental Sampling Program (LRC SSP) and RM 10.9 supplemental programs and the same laboratories will be used for the LRC SSP and RM 10.9 supplemental program analyses, a pre-program PE study will not be performed prior to the HV CWCM program. However, known PE samples obtained from a commercial vendor (e.g., Resource Technology



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Corporation [RTC] or Wibby Environmental), which are not blind, will be inserted with sample shipments at a rate of 1 per 20 samples for PCDD/Fs and PCBs (homologs and congeners). A pre-program PE study will also be conducted if there is a change in laboratories.